



The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

07/15/2011

Michael Murawski
Assistant District Attorney, Suffolk County

Dear ADA Murawski,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Annie Dookhan & Lisa Glazer.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC Spectral analytical data for sample # [REDACTED]
6. GC/Mass Spectral analytical data for samples # [REDACTED]

Lisa Glazer was the custodial chemist and performed the preliminary testing and net weight for this sample. Annie Dookhan was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Khan".

Annie Khan (Dookhan)
Chemist II
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6631
Annie.Khan@state.ma.us

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Maintenance and repairs of all analytical instruments.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Oversee the Quality Control/Quality Assurance program for the Drug Lab.

*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.

*Notary Public.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Lisa A. Glazer

Education

Bachelor of Science Degree, CHEMISTRY January 2006
UNIVERSITY OF NEW HAVEN

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

Bachelor of Science Degree, FORENSIC SCIENCE January 2006
UNIVERSITY OF NEW HAVEN

Coursework included: Organic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus, Biology, Criminal Justice and Forensic Science courses

Employment

Chemist I, II State Laboratory Institute (May 2007-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2007.

Laboratory Technician I (August 2006 – May 2007)

University of Connecticut Chemistry Department - Storrs, CT

- Prepared unknowns, chemical reagents and supplies for undergraduate chemistry courses
- Set-up experiment demonstrations
- Properly disposed of hazardous waste from the experiments
- Made sure labs were being conducted safely
- Kept track of student laboratory paperwork, inventoried glassware and chemicals and helped clean glassware

Intern (September 2005 – November 2005)

CONNECTICUT STATE POLICE FORENSIC LABORATORY - Meriden, CT

- Worked on a Pyrolysis Gas Chromatography project
- Observed in the GSR testing, Forensic Biology, DNA, Questioned Documents, Black and White Photo, Latent Prints, Firearms, Trace Evidence and Color Photo Units

DRUG RECEIPTCC # 

BOOK #

57

PAGE #

87

DESTRUCTION #

District/Unit

A-1 DCU

Name & Rank of Arresting Officer

Sgt Det Wm Dwyer

ID#

10060

To be completed by ECU personnel only

Name and Rank of Submitting Officer

BRESNAHAN

ID#

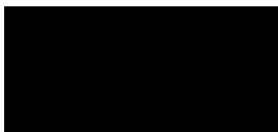
11396

DEFENDANT'S NAME

ADDRESS

CITY

STATE



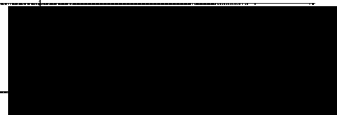
DESCRIPTION OF ITEMS SUBMITTED

GROSS
QUANTITYGROSS
WEIGHT**LAB USE ONLY**ANALYSIS
NUMBER

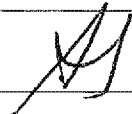
CRACK COCAINE

1 p/b

1.73 gm



Received by



Date

6-17-08

ECU Control #

08-3079

No. [REDACTED] Date Analyzed: 10-07-08
City: Boston D.C.U. Police Dept.
Officer: P.O. BRESNAHAN
Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 1 Cont: pb

Date Rec'd: 06/17/2008

Gross Wt.: 1.73 ✓

No. Analyzed:

Net Weight: 0.139

Tests: 6072

Prelim: unknown

Findings: ASD
negative

DRUG POWDER ANALYSIS FORM

SAMPLE #



AGENCY

Boston

ANALYST

ATG

No. of samples tested: _____

Evidence Wt. ✓

PHYSICAL DESCRIPTION:

signed & sealed
1 pb w/ white powder

Gross Wt (): _____

1 pb

Gross Wt (): _____

0.2100g

Pkg. Wt: _____

0.0784g

Net Wt: _____

0.1316g

* Expedited Sample *

PRELIMINARY TESTS

Spot Tests

Cobalt
Thiocyanate (-) ⊖ w/ acid

Marquis ⊖

Froehde's ⊖

Mecke's ⊖

Microcrystalline Tests

Gold
Chloride _____

TLTA () _____

OTHER TESTS

GC: ⊕ peaks @
3.939 & 4.278 weak
dillio ⊖

PRELIMINARY TEST RESULTS

RESULTS

Unknown

DATE

9/26/08

GC/MS CONFIRMATORY TEST

RESULTS

Negative

MS
OPERATOR

ASD

DATE

10/7/08

Sequence Table (Front Injector):

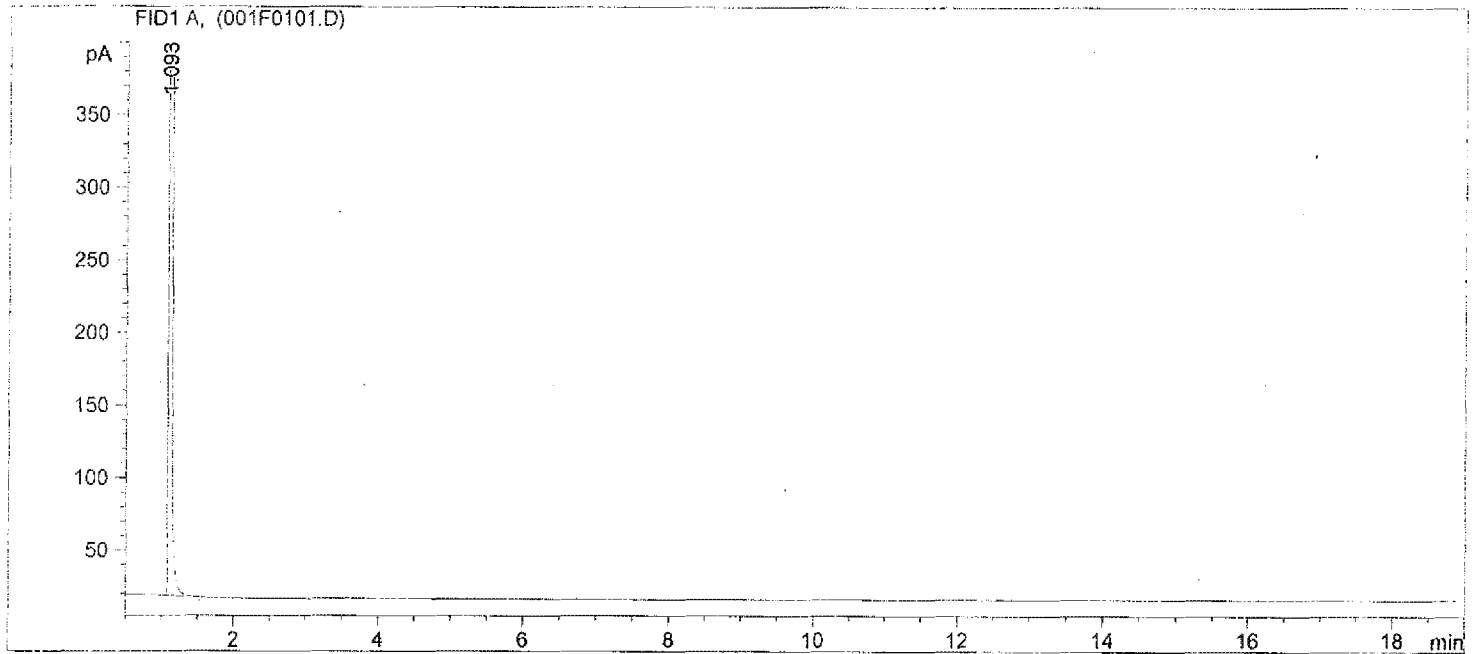
Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
====	=====	=====	=====	==	=====	=====	=====
1	Vial 1		GENSCAN	1	Sample	1.0	
2	Vial 2		GENSCAN	1	Sample	1.0	
3	Vial 3		WGENSCAN	1	Sample	1.0	
4	Vial 4		WGENSCAN	1	Sample	1.0	
5	Vial 5		WGENSCAN	1	Sample	1.0	
6	Vial 6		WGENSCAN	1	Sample	1.0	
7	Vial 7		WGENSCAN	1	Sample	1.0	
8	Vial 8		GENSCAN	1	Sample	1.0	
9	Vial 9		GENSCAN	1	Sample	1.0	
10	Vial 10		GENSCAN	1	Sample	1.0	
11	Vial 11		GENSCAN	1	Sample	1.0	

Sequence Table (Back Injector):

No entries - empty table!

```
=====
Injection Date   : 9/26/2008 7:51:35 AM      Seq. Line :    1
Sample Name      : BLANK                     Location  : Vial 1
Acq. Operator    : ASD                      Inj       :    1
Acq. Instrument  : Instrument 3              Inj Volume: 1 µl
Sequence File    : C:\HPCHEM\1\SEQUENCE\CBS.S
Method           : C:\HPCHEM\1\METHODS\GENSCAN.M
Last changed     : 6/29/2006 1:41:12 PM by ASD
FOR UNKNOWN SAMPLES
=====
```



```
=====
                          Area Percent Report
=====
```

```
Sorted By           :      Signal
Multiplier           :      1.0000
Dilution             :      1.0000
Sample Amount        :      1.00000 [fleeps]   (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	1.093	BB S	0.0174	1.20347e5	1.02681e5	1.000e2

Totals : 1.20347e5 1.02681e5

Results obtained with enhanced integrator!

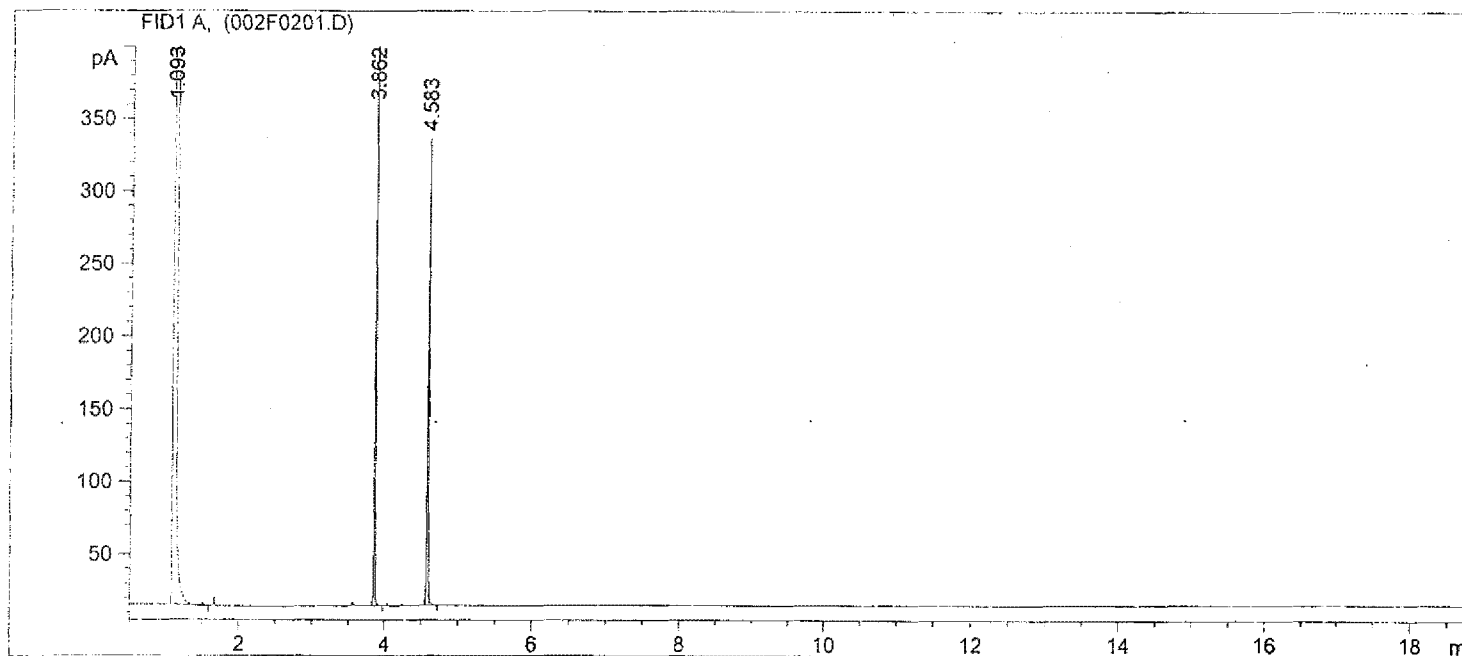
```
=====
*** End of Report ***
=====
```


=====

Injection Date	: 9/26/2008 8:15:11 AM	Seq. Line	: 2
Sample Name	: COKE/COD STD	Location	: Vial 2
Acq. Operator	: ASD	Inj	: 1
Acq. Instrument	: Instrument 3	Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\CBS.S		
Method	: C:\HPCHEM\1\METHODS\GENSCAN.M		
Last changed	: 6/29/2006 1:41:12 PM by ASD		

FOR UNKNOWN SAMPLES

=====



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Sample Amount : 1.00000 [fleeps] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

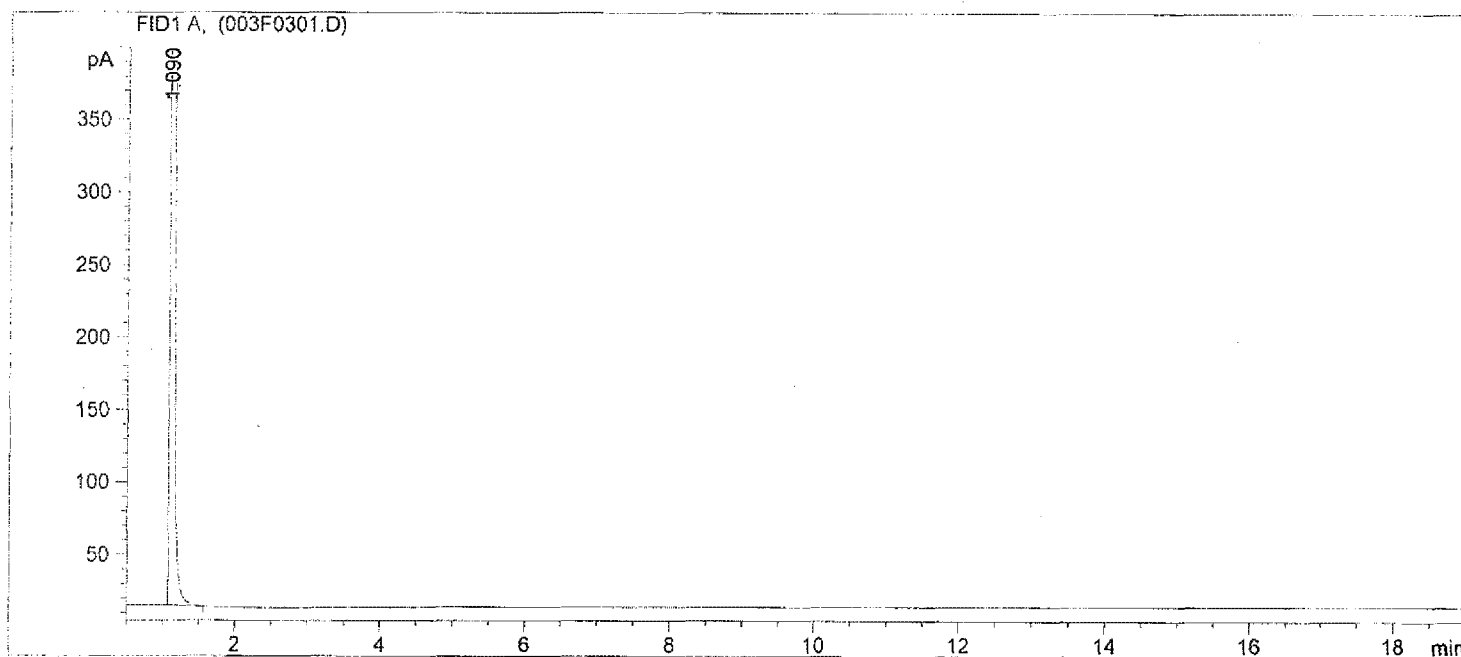
Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	1.093	BB S	0.0190	1.15817e5	1.02219e5	99.35358
2	3.862	PB	0.0136	387.39697	434.79376	0.33233
3	4.583	PB	0.0177	366.13739	322.73526	0.31409

Totals : 1.16571e5 1.02976e5

Results obtained with enhanced integrator!

=====
*** End of Report ***

```
=====
Injection Date   : 9/26/2008 8:38:47 AM      Seq. Line :    3
Sample Name      : BLANK                      Location  : Vial 3
Acq. Operator    : ASD                       Inj       :    1
Acq. Instrument  : Instrument 3               Inj Volume: 1 µl
Sequence File    : C:\HPCHEM\1\SEQUENCE\CBS.S
Method           : C:\HPCHEM\1\METHODS\WGENSCAN.M
Last changed     : 3/22/2007 1:40:54 PM by ASD
FOR UNKNOWN SAMPLES
=====
```



```
=====
                          Area Percent Report
=====
```

```
Sorted By           :      Signal
Multiplier           :      1.0000
Dilution             :      1.0000
Sample Amount        :      1.00000 [fleeps]   (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

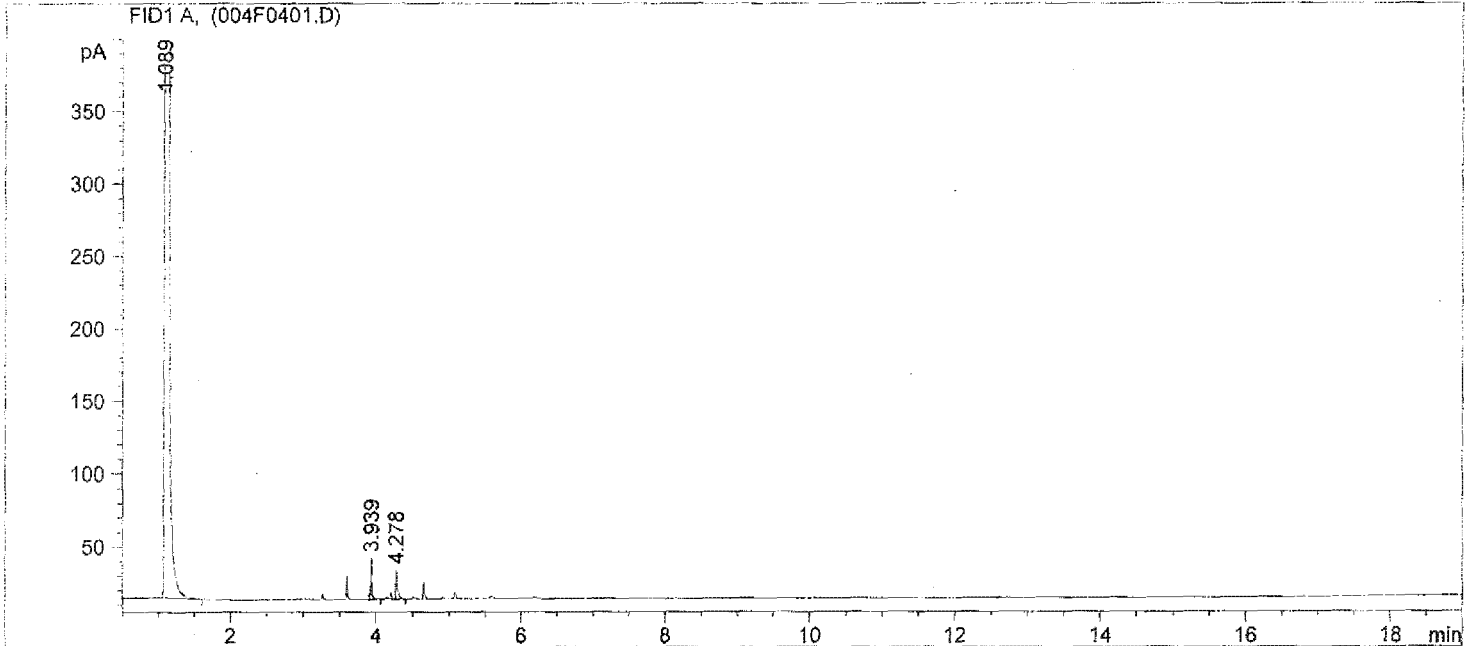
Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	1.090	BB S	0.0283	2.20788e5	1.35131e5	1.000e2

Totals : 2.20788e5 1.35131e5

Results obtained with enhanced integrator!

```
=====
*** End of Report ***
```

```
=====
Injection Date   : 9/26/2008 9:02:33 AM      Seq. Line :    4
Sample Name     : ██████████                Location  : Vial 4
Acq. Operator   : ASD                      Inj       :    1
Acq. Instrument : Instrument 3              Inj Volume: 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\CBS.S
Method          : C:\HPCHEM\1\METHODS\WGENSCAN.M
Last changed    : 3/22/2007 1:40:54 PM by ASD
FOR UNKNOWN SAMPLES
=====
```



```
=====
                          Area Percent Report
=====
```

```
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Sample Amount   :      1.00000 [fleeps]   (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	1.089	BB S	0.0227	2.19079e5	1.42739e5	99.97146
2	3.939	BB	0.0153	28.80908	28.40330	0.01315
3	4.278	VB	0.0237	33.73588	20.28095	0.01539

Totals : 2.19142e5 1.42788e5

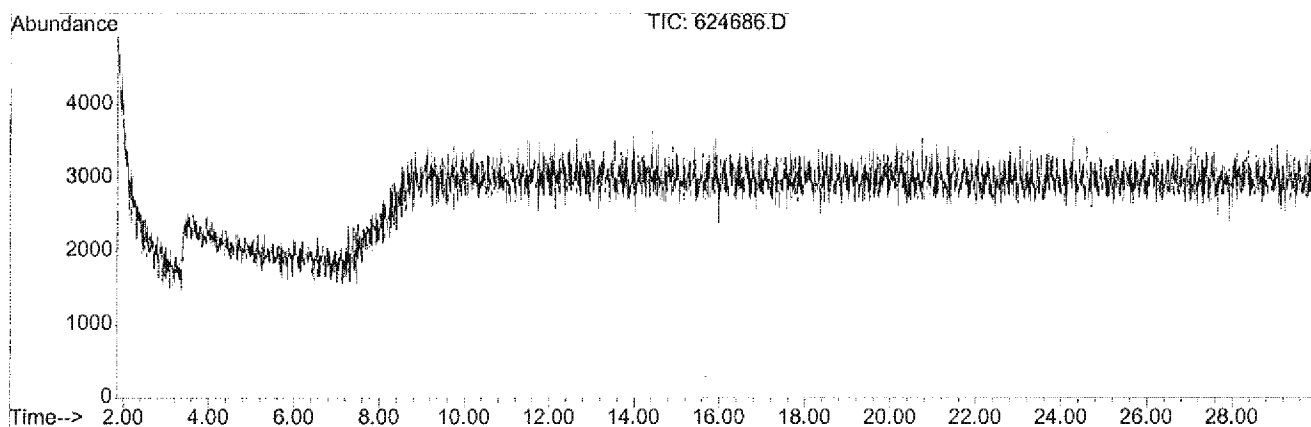
Results obtained with enhanced integrator!

```
=====
*** End of Report ***
=====
```

Area Percent / Library Search Report

Information from Data File:

File Name : E:\SYSTEM7\10_06_08\624686.D
Operator : ASD
Date Acquired : 7 Oct 2008 4:47
Sample Name : BLANK
Submitted by : LAG
Vial Number : 2
AcquisitionMeth: SCREEN
Integrator : RTE



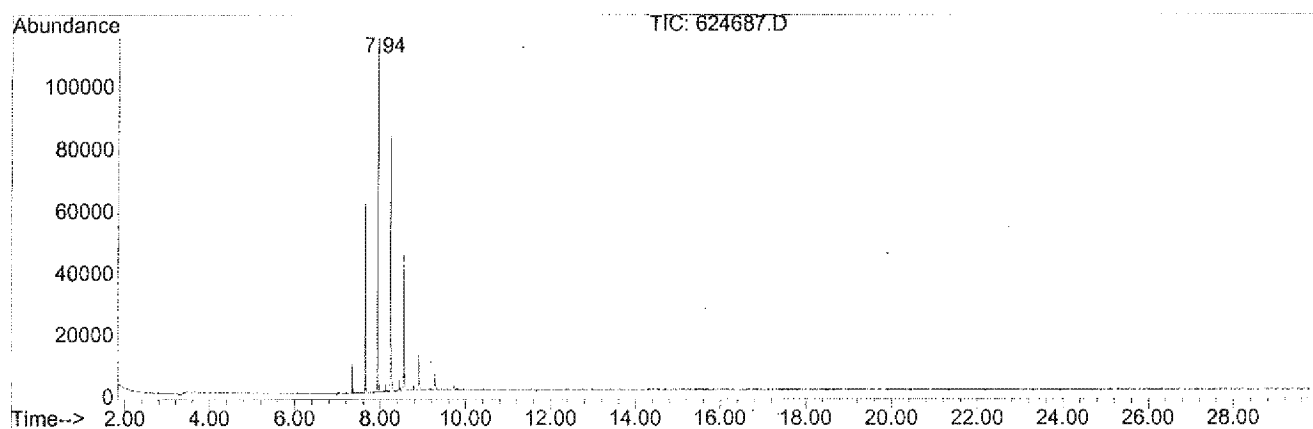
Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : E:\SYSTEM7\10_06_08\624687.D
 Operator : ASD
 Date Acquired : 7 Oct 2008 5:21
 Sample Name : XXXXXXXXXX
 Submitted by : LAG
 Vial Number : 87
 AcquisitionMeth: SCREEN
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
7.938	103191	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

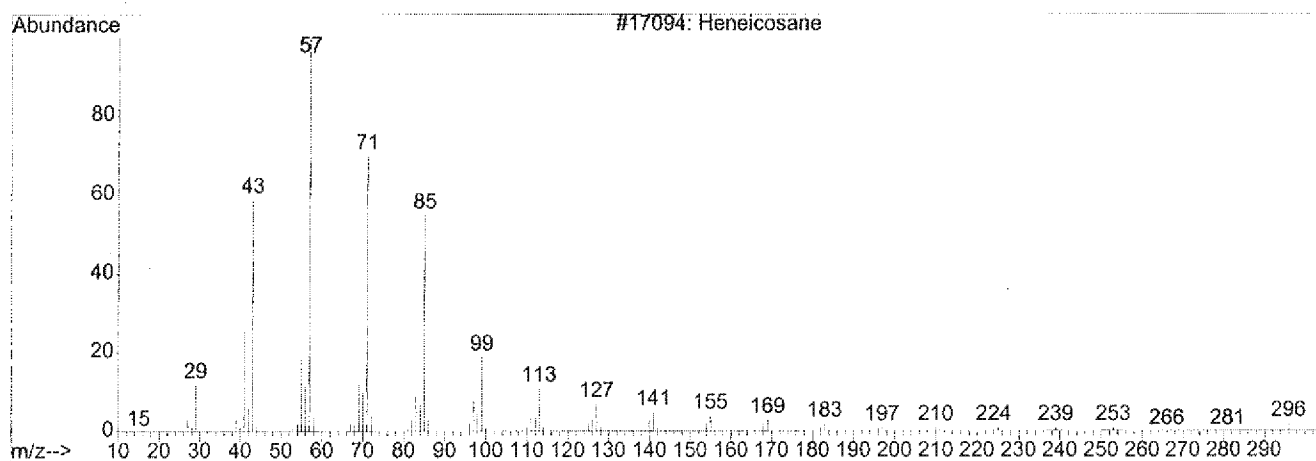
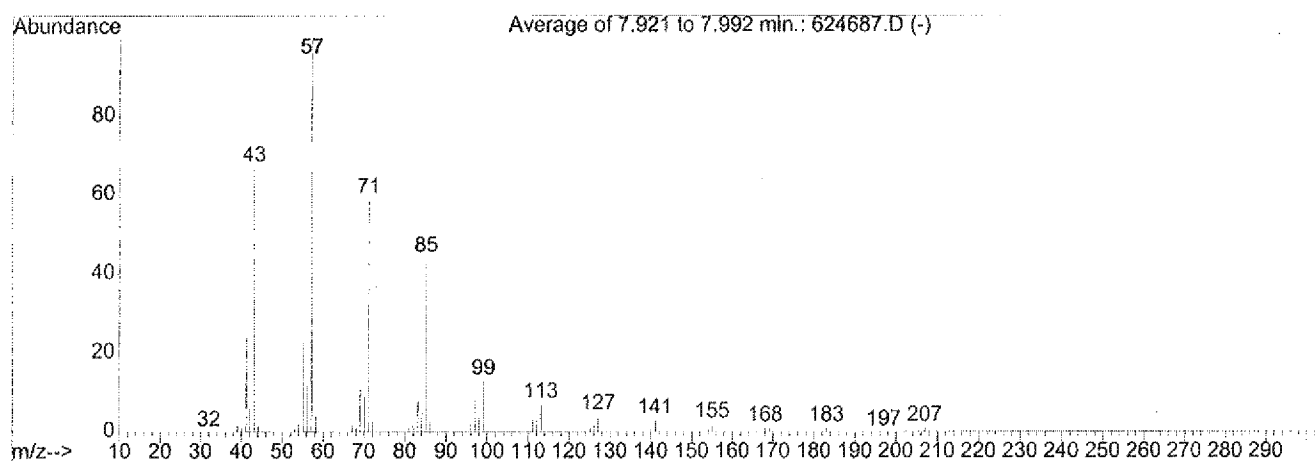
```

File Name       : E:\SYSTEM7\10_06_08\624687.D
Operator        : ASD
Date Acquired   : 7 Oct 2008   5:21
Sample Name     : 
Submitted by    : LAG
Vial Number     : 87
AcquisitionMeth : SCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

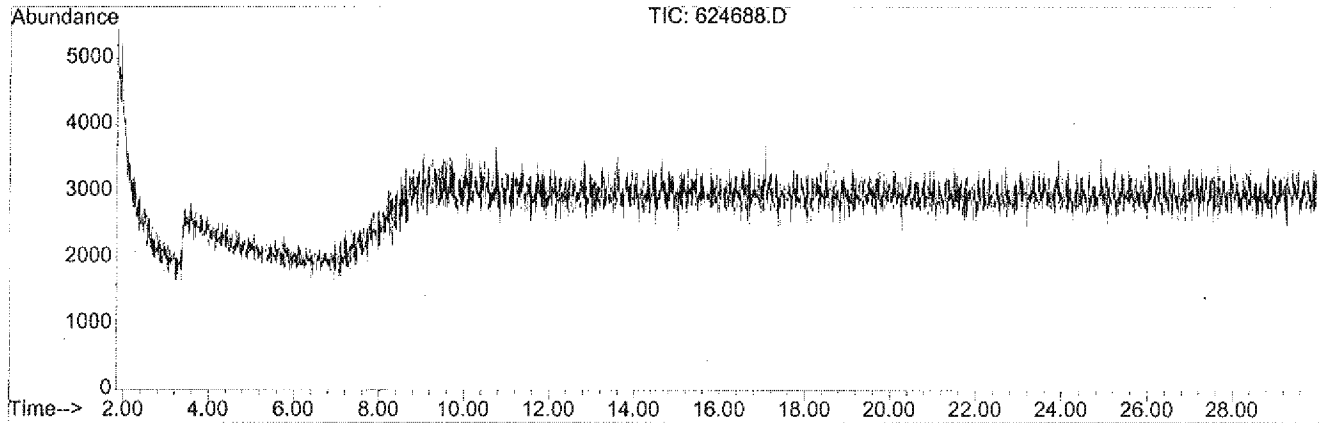
PK#	RT	Library/ID	CAS#	Qual
1	7.94	C:\DATABASE\NIST98.L		
		Heneicosane	000629-94-7	90
		Tricosane	000638-67-5	90
		Heptadecane	000629-78-7	90



Area Percent / Library Search Report

Information from Data File:

File Name : E:\SYSTEM7\10_06_08\624688.D
Operator : ASD
Date Acquired : 7 Oct 2008 5:55
Sample Name : BLANK
Submitted by : LAG
Vial Number : 2
AcquisitionMeth: SCREEN
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

NO INTEGRATED PEAKS